



Intelligent Pump
UI-22-110, SS, PEEK, PCTFE

Linear Drive Pulse Control Intelligent Pump UI-22 series

Combines High Precision Flow with Ease of Use

Features

- Reduces pulsation to an absolute minimum, making super low pulsation flow possible
- Problems with bubbles greatly reduced
- Plunger seal life extended
- Limit switches for both high and low pressures
- Space-saving compact design
- 2 or more pumps can be externally controlled thru RS-232C interface
- Choose either PEEK or Stainless Steel to match solvent used

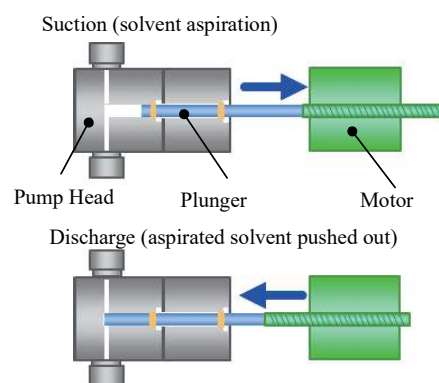
PUMP UNIT

Product name	Intelligent Pump				
Part number	UI-22-110			UI-22-410	
Pump head material	SS	PEEK	PCTFE	SS	PCTFE
Max pressure *1	35 MPa	20 MPa	2 MPa	5 MPa	2 MPa
Flow rate range	0.001 ~ 9.999 mL/min			0.01 ~ 99.99 mL/min	
Flow per stroke	80 µL			708 µL	
Plunger stroke	10 mm				
Flow accuracy	< 0.3 %				
Features	Active pulse reduction, Flow volume calibration, Upper and lower pressure limiter				
Pressure accuracy	< 5 %				
Wetted materials	SS type: SS, Sapphire, Ruby, PTFE, PCTFE PEEK type: PEEK, Sapphire, Ruby, PTFE, PCTFE PCTFE type: PCTFE, Sapphire, Ruby, PTFE, ETFE				
Remote control	Input: Pump on/off, Output: Error signal				
Communication	RS232C				
Dimensions	144 (H) x 105 (W) x 240 (D) mm				
Weight	Approx. 5.6 Kg				
Order code	SLP-P509	SLP-P514	SLP-P517	SLP-P511	SLP-P510

*1: Maximum pressure is only sustained intermittently. Continuous pump operation at maximum pressure cannot be guaranteed.

Note: The specifications and product design may change without prior notice.

Linear Drive Design



The UI-22 pump uses a linear driver mechanism in which the plunger moves in line with the motor's axis. Because aspirated air can be easily discharged, and with the seal suffering almost no wear, tiny leaks from the seal are eliminated, which means that even highly volatile solvents can be efficiently pumped.

NEW Automatic Back Pressure Regulator Auto BPR BP-11 Series For use with UI-22 Series

Features

- Provide consistent pressure with tracking variable pump pressure in real time
- For use with UI-22 Series Intelligent Pump



Auto BPR
BP-11, PCTFE

Product name	Auto BPR	
Part number	BP-11S	BP-11D
Wetted material	SUS, PFA	PCTFE, PFA
Fluid path diameter	0.6mm	
Pressure range	0.10~5.00MPa	
Flow rate	0.1~100ml/min	
Pressure control range*1	0.5~5.00MPa	
Control accuracy	±0.1MPa	
Pressure signal	uses pressure signal from UI-22 [DC1-5V]	
Remote control	RS232C, RS485, START-IN, READY-OUT	
Dimensions	144(W)×79×(H)×240(D) mm excluding protuberances	
Weight	Approx. 2.7kg	
Order Code	SBP-F012	SBP-F019

*1: When using distilled water or methanol, settable pressure is 0.5~5.0MPa, settable flow rate is 0.1~50.0ml/min. Note: for flow rates outside the 0.1~50.0ml range, contact FLOM.